

FIGURE 1

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Clinical and pathological characteristics of breast tissues

	Normal	Total	Carcinoma		
			In situ	Grade 2	Grade 3
Pin1 Positive $\bar{x} \pm SD$	0/10† 0.114±0.106	38/51 (75%) 1.072±0.719	1/4 (25%) 0.564±0.948	20/28 (71%) 0.924±0.609	17/19 (89%) 1.399±0.717
Cyclin D1	0/10	24/51 (47%)	2/4 (50%)	10/28 (36%)	12/19 (63%)
HER2/neu	0/10	8/51 (16%)	0/4 (0%)	4/28 (14%)	4/19 (21%)
Estrogen receptor	N.D.*	34/50† (68%)	3/4 (75%)	20/28 (71%)	11/18 (61%)
Age Median (Range)	57 (22-91)	65 (28-90)	72 (43-80)	65 (31-90)	60 (28-78)

FIGURE 2

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Correlation of the Pin1 level with clinical and pathological characteristics

		Number of cases	Pin1 level ($\bar{X} \pm SD$)	P value
Normal Tumor		10 51	0.114 ± 0.106 1.072 ± 0.716	<0.0001*
Tumor Grade	Grade 2 Grade 3	28 19	0.924 ± 0.609 1.399 ± 0.717	0.02*
Cyclin D1†	Positive Negative	24 27	1.364 ± 0.715 0.824 ± 0.631	0.01*
HER2/neu†	Positive Negative	8 43	1.317 ± 0.732 1.027 ± 0.713	0.10
Estrogen† Receptor	Positive Negative	34 16	1.011 ± 0.718 1.238 ± 0.720	0.32

FIGURE 3

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Differentially expressed genes in Pin1-overexpressed MCF-7 cells

<Up-regulated genes>	<Down-regulated genes>
S-aminolevulinate synthase	Serine/threonine protein kinase sgk
CD97	Alpha 2 actinin
BIP/GRP78	Tu translation elongation factor (p43)
<u>PPAR-delta</u>	Platelet-activating factor acetylhydrolase 1b gamma
SRY(sex-determining region Y)-box 22 (SOX22)	Eukaryotic translation initiation factor 4E biding protein 1
IFN-inducible gamma 2 protein	
<u>Fibronectin</u>	
Stress inducible phospho protein 1 (STIMPI)	
Phosphoenolpyruvate carboxykinase 1 (PCK1)	
<u>C-Myc</u>	
Profilin	
Unknown NO81	
EST No20-2	
<u>Cyclin D1</u>	

#genes underlined are wnt/beta-catenin/Tcf-4-target gene

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FIGURE 4

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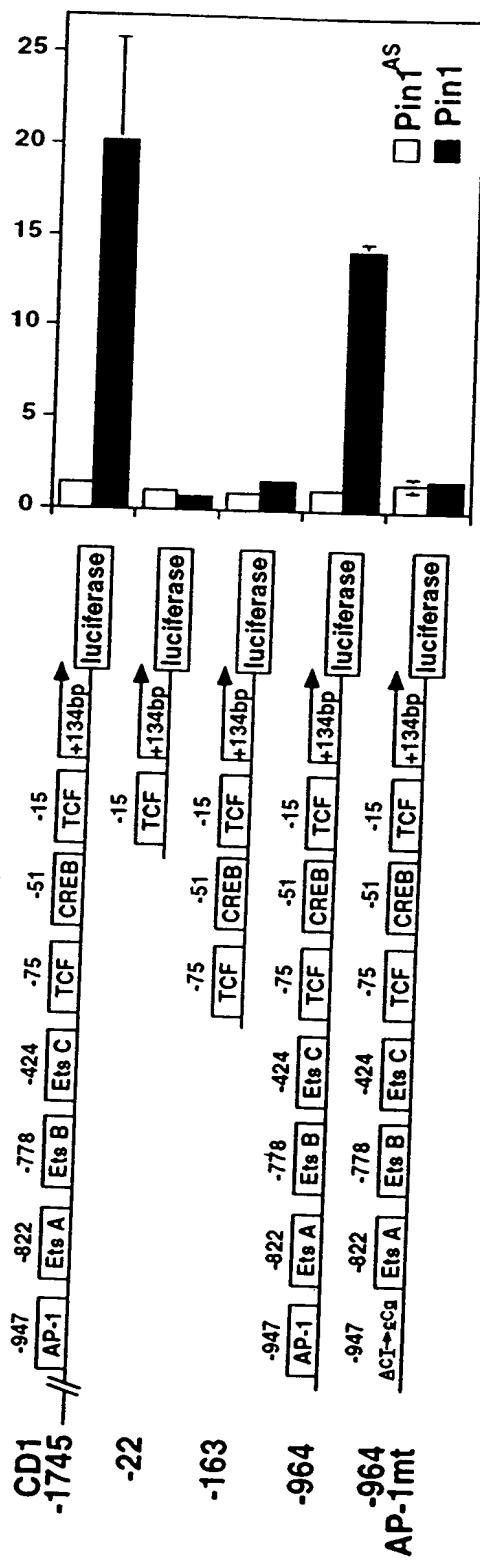


FIGURE 5

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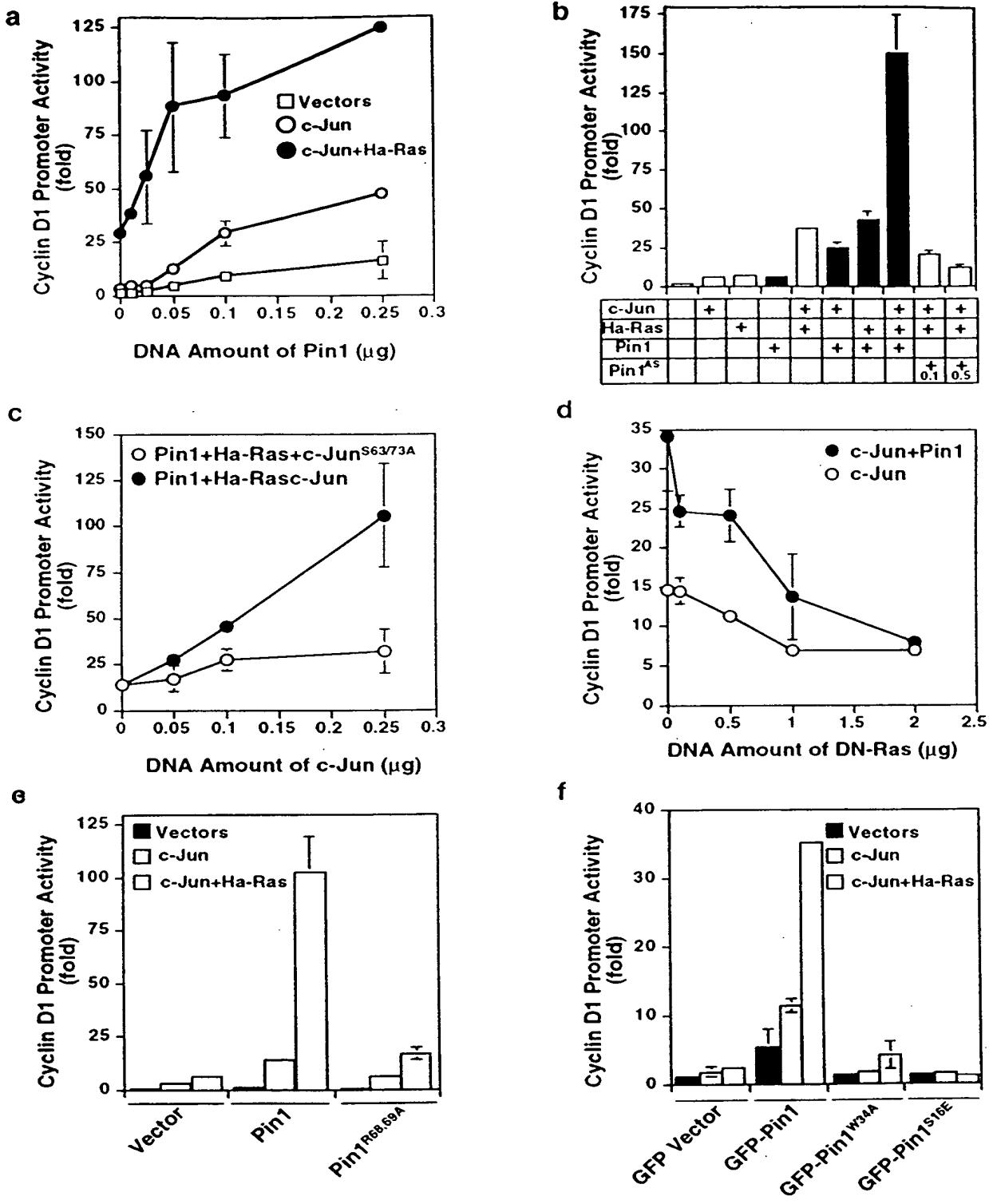


FIGURE 6

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